

1. CPU Stability Test: Rev.011

Procedure:

- (1) Install Windows 8 Enterprise 64Bit (English).**
- (2) Check CPU information & specification with CPU-Z.**
- (3) Run Passmark Performance Test 8.0 Build1027 - 1 time.**
- (4) Run AIDA64 Cache and Memory Benchmark Ver.4.00.2700 - 1 time.**
- (5) Run 3DMark11 Demo Edition Ver.1.0.5BenchMark - 3 times.**
- (6) Run S3/S4/S5 - 3 times.**

No.	CPU	Test Environment	Result
1	Intel / Atom-E3826 (BayTrail-I/B3-SR1RC/7W) / 1.46GHz	M/B: BT700-T28E26 Rev.1 (011) (BSD440100004) & Q7X-151 Rev.1 (011) (BSD450300011) M/B BIOS: AMI-Aptio 12/20/2013 M/B Driver: Demo Dec/24/2013 DDR3: On Board (2GB) SSD: Silicon Power / SP120GBSS3V60S25 SATA3120GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray Power: FSP / FSP060-DBAB1 O.S.: Windows 8 Enterprise 64Bit (English) Test Summary: 1.Passmark Performance Test CPU Mark:734 Memory Mark:559 2.AIDA64 Cache and Memory Benchmar READ:7186MB/s WRITE:7372MB/s COPY:7045MB/s 3.3DMark11 Score:P199 Overnight looping under 11 hours	Pass

<p style="text-align: center; font-weight: bold; font-size: 24px;">2</p>	<p>Intel / Atom-E3825 (BayTrail-I/B3-SR1RB/6W) / 1.33GHz</p>	<p>M/B: BT700-T24E25 Rev.1 (011) (BSD440100007) & Q7X-151 Rev.1 (011) (BSD450300006)</p> <p>M/B BIOS: AMI-Aptio 12/20/2013</p> <p>M/B Driver: Demo Dec/24/2013</p> <p>DDR3: On Board (2GB)</p> <p>SSD: Silicon Power / SP120GBSS3V60S25 SATA3120GB/2.5"</p> <p>Display: On Board</p> <p>DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray</p> <p>Power: FSP / FSP060-DBAB1</p> <p>O.S.: Windows 8 Enterprise 64Bit (English)</p> <p>Test Summary: 1.Passmark Performance Test CPU Mark:674 Memory Mark:515 2.AIDA64 Cache and Memory Benchmark READ:6985MB/s WRITE:7230MB/s COPY:6797MB/s 3.3DMark11 Score:P169</p>	<p style="text-align: center; font-weight: bold; font-size: 24px;">Pass</p>
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No.	CPU	Test Environment	Result
3	Intel / Atom-E3827 (BayTrail-I/B3-SR1RD/8W) / 1.75GHz	M/B: BT700-T40E27 Rev.1 (011) (BSD440100010) & Q7X-151 Rev.1 (011) (BSD450300002) M/B BIOS: AMI-Aptio 12/20/2013 M/B Driver: Demo Dec/24/2013 DDR3: On Board (4GB) SSD: Silicon Power / SP120GBSS3V60S25 SATA3120GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray Power: FSP / FSP060-DBAB1 O.S.: Windows 8 Enterprise 64Bit (English) Test Summary: 1.Passmark Performance Test CPU Mark:871 Memory Mark:684 2.AIDA64 Cache and Memory Benchmark READ:8581MB/s WRITE:8842MB/s COPY:8340MB/s 3.3DMark11 Score:P232 Overnight looping under 11 hours	Pass

<p style="text-align: center;">4</p>	<p>Intel / Atom-E3815 (BayTrail-I/B3-SR1RA/5W) / 1.46GHz</p>	<p>M/B: BT700-T20E15 Rev.1 (011) (BSD440100006) & Q7X-151 Rev.1 (011) (BSD450300012)</p> <p>M/B BIOS: AMI-Aptio 12/20/2013</p> <p>M/B Driver: Demo Dec/24/2013</p> <p>DDR3: On Board (2GB)</p> <p>SSD: Silicon Power / SP120GBSS3V60S25 SATA3120GB/2.5"</p> <p>Display: On Board</p> <p>DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray</p> <p>Power: FSP / FSP060-DBAB1</p> <p>O.S.: Windows 8 Enterprise 64Bit (English)</p> <p>Test Summary: 1.Passmark Performance Test CPU Mark:379.4 Memory Mark:481.8 2.AIDA64 Cache and Memory Benchmark READ:3100MB/s WRITE:2908MB/s COPY:3517MB/s 3.3DMark11 Score:P133</p>	<p style="text-align: center;">Pass</p>
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2. Stability Test: Rev.021

2.1 CPU Test:

Procedure:

- (1) Install O.S.
- (2) Check CPU information & specification with CPU-Z.
- (3) Run Passmark Performance Test 8.0 Build1027 - 1 time.
- (4) Run AIDA64 Cache and Memory Benchmark Ver.4.50.3000 - 1 time.
- (5) Run 3DMark for Windows Ver.1.3.708 BenchMark - 3 times.
- (6) Check CPU temperature in the BIOS after running 3DMark.
- (7) Run S3/S4/S5 - 3 times.

No.	CPU	Type	CPU Temp.	Result
1	Intel / 1.91GHz	Atom-E3845 (BayTrail-I/B3-SR1RE) / 10W / FCBGA1170	56 °C	Pass
2	Intel / 1.75GHz	Atom-E3827 (BayTrail-I/B3-SR1RD) / 8W / FCBGA1170	49 °C	Pass
3	Intel / 1.46GHz	Atom-E3826 (BayTrail-I/B3-SR1RC) / 7W / FCBGA1170	47 °C	Pass
4	Intel / 1.46GHz	Atom-E3815 (BayTrail-I/B3-SR1RA) / 5W / FCBGA1170	45 °C	Pass

2.2 DDR3 Module Test Procedures:

Procedure:

- (1) Install O.S.
- (2) Check Memory information & specification with CPU-Z.
- (3) Run Passmark Performance Test 8.0 Build1027 - 1 time.
- (4) Run AIDA64 Cache and Memory Benchmark Ver.4.50.3000 - 1 time.
- (5) Run 3DMark for Windows Ver.1.3.708 BenchMark - 3 times.
- (6) Run S3/S4/S5 - 3 times.

No.	DDR3 Module	Test Environment	Result
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1	<p>NANYA NT5CC256M8FN-DII 2Gb DDR3L DRAM *8 (256Mx8b(32Mbitx8 I/Ox8 Banks, Clock:800MHz,1.35V/1.50V, Data Rate:DDR3L-1600 Bb/s, 96 Ball BGA,CL-TRCD-TRP=11-11-11)</p>	<p>M/B: BT700-T24-E27 Rev.2 (022) (BSE202200008) & Q7A-551 Rev.2 (021) (BSE040400014) M/B BIOS: AMI-Aptio 07/30/2014 M/B Driver: Demo Aug/05/2014 CPU: Intel / Atom-E3827 (BayTrail-I/B3-SR1RD) / 1.75GHz eMMC.: On Board (4GB) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" Display: On Board DVD-RW: Pioneer / DVR-XT11T USB2.0 Power: FSP / FSP060-DBAB1 O.S.: Windows 7 Ultimate 32Bit (English) & SP1 Test Summary: 1.Passmark Performance Test 8.0 Build1027 CPU Mark:563 Memory Mark:415.8 2.AIDA64 Cache and Memory Benchmark Ver.4.50.3000 READ:8717MB/s WRITE:9187MB/s COPY:8624MB/s 3.3DMark for Windows Ver.1.3.708 Cloud Gate:1148 Ice Storm:9094 Skydiver:531 Strike Test:----</p>	Pass
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No.	DDR3 Module	Test Environment	Result
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2	<p>NANYA NT5CC512M8CN-DII 4Gb DDR3L DRAM *8 (512Mx8b(64Mbitx8 I/Ox8 Banks, Clock:800MHz,1.35V/1.50V, Data Rate:DDR3L-1600 Bb/s,96 Ball BGA)</p>	<p>M/B: BT700-T44-E45 Rev.2 (022) (BSE201800007) & Q7A-551 Rev.2 (021) (BSE040400022)</p> <p>M/B BIOS: AMI-Aptio 07/30/2014</p> <p>M/B Driver: Demo Aug/05/2014</p> <p>CPU: Intel / Atom-E3845 (BayTrail-I/B3-SR1RE) / 1.91GHz</p> <p>eMMC.: On Board (4GB)</p> <p>SSD: Silicon Power / SP120GBSS3V60S25 SATA3 120GB/2.5"</p> <p>Display: On Board</p> <p>DVD-RW: Asus / SDRW-08D2S-U/BLK/G/AS USB2.0</p> <p>Power: FSP / FSP060-1AD101C</p> <p>O.S.: Windows 7 Ultimate 32Bit (English) & SP1</p> <p>Test Summary: 1.Passmark Performance Test 8.0 Build1027</p> <p style="padding-left: 40px;">CPU Mark:1170</p> <p style="padding-left: 40px;">Memory Mark:487.6</p> <p>2.AIDA64 Cache and Memory Benchmark Ver.4.50.3000</p> <p style="padding-left: 40px;">READ:8828MB/s</p> <p style="padding-left: 40px;">WRITE:9007MB/s</p> <p style="padding-left: 40px;">COPY:8556MB/s</p> <p>3.3DMark for Windows Ver.1.3.708</p> <p style="padding-left: 40px;">Cloud Gate:1431</p> <p style="padding-left: 40px;">Ice Storm:10282</p> <p style="padding-left: 40px;">Skydiver:540</p> <p style="padding-left: 40px;">Strike Test:---</p>	Pass
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		<p>M/B: BT700-T41-E15 Rev.2 (022) (BSE202300033] & Q7A-551 Rev.2 (021) (BSE040400004)</p> <p>M/B BIOS: AMI-Aptio 08/29/2014</p> <p>M/B Driver: Demo Aug/29/2014</p> <p>CPU: Intel / Atom-E3815 (BayTrail-I/B3-SR1RA) / 1.46GHz</p> <p>eMMC.: On Board (16GB)</p> <p>SATA HDD: Seagate / STM3500320AS SATA2 NCQ 500GB/7200RPM</p> <p>Display: On Board (using DisplayPort to D-Sub)</p> <p>DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray</p> <p>Power: FSP / FSP060-1AD101C</p> <p>O.S.: Windows 8 Enterprise 64Bit (English)</p> <p>Test Summary: Environment Temp.:26°C</p> <p>CPU Temp.:40°C</p> <p>Environment Temp. after 3Dmark.:45°C</p> <p>1.Passmark Performance Test 8.0 Build1027</p> <p>CPU Mark:365.7</p> <p>Memory Mark:501</p> <p>2.AIDA64 Cache and Memory Benchmark Ver.4.50.3000</p> <p>READ:4705MB/s</p> <p>WRITE:4181MB/s</p> <p>COPY:5223MB/s</p> <p>3.3DMark for Windows Ver.1.3.708</p> <p>Cloud Gate:574</p> <p>Ice Storm:5139</p> <p>Skydiver:280</p> <p>Strike Test:----</p>	<p>Pass</p>
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No.	DDR3 Module	Test Environment	Result
3	NANYA NT5CC512M8CN-DI 4Gb DDR3L DRAM *8 (512Mx8b(64Mbitx8 I/Ox8 Banks, Clock:800MHz,1.35V/1.50V, Data Rate:DDR3L-1600 Bb/s, 78 Ball BGA)	M/B: BT700-B40-E26 Rev.2 (022) (BSE201900008) & Q7A-551 Rev.2 (021) (BSE040400018) M/B BIOS: AMI-Aptio 08/29/2014 M/B Driver: Demo Aug/29/2014 CPU: Intel / Atom-E3826 (BayTrail-I/B3-SR1RC) / 1.46GHz SSD: SanDisk / SDSSDHP-128G SATA3 128GB/2.5" (SATA port 0) Display: On Board (using DisplayPort) DVD-RW: Pioneer / DVR-XT11T USB2.0 Power: FSP / FSP060-1AD101C O.S.: Windows 8.1 Enterprise 64Bit (English) Test Summary: Environment Temp.:26.6°C CPU Temp.:46°C Environment Temp. after 3Dmark.:47°C 1.Passmark Performance Test 8.0 Build1027 CPU Mark:730 Memory Mark:567 2.AIDA64 Cache and Memory Benchmark Ver.4.50.3000 READ:6813MB/s WRITE:6992MB/s COPY:6578MB/s 3.3DMark for Windows Ver.1.3.708 Cloud Gate:916 Ice Storm:7639 Skydiver:422 Fire Strike:----	Pass

2.3 e.MMC Chip:

Procedure:

(1) Check device detect.

No.	e.MMC Chip	Test Environment	Result
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<p>1</p>	<p>Micron 4GB (MTFC4GLGDM-AIT Z, Part number:4AAI8 JY450, NAND Density:4GB, Package:FBGA153, Operating Voltage:VCC=2.7V~3.6V, VCCQ=1.65~1.95V/2.7~3.6V, Read Sequential:27 MB/s, Write Sequential:6.6 MB/s, Compliant with eMMC Specification Ver 4.41,MLC NAND)</p>	<p>M/B: BT700-T44-E45 Rev.2 (022) (BSE201800007) & Q7A-551 Rev.2 (021) (BSE040400022) M/B BIOS: AMI-Aptio 07/30/2014 M/B Driver: Demo Aug/05/2014 CPU: Intel / Atom-E3845 (BayTrail-I/B3-SR1RE) / 1.91GHz DDR3: On Board (DDR3L-1600/4GB) SSD: Crucial / CT120M500SSD1 SATA3 120GB/2.5" (SATA port 0) Display: On Board (using DisplayPort) DVD-RW: Pioneer / DVR-XT11T USB2.0 Power: FSP / FSP060-1AD101C O.S.: Windows 7 Ultimate 64Bit (English) & SP1</p>	<p>Note ID24660</p>
<p>2</p>	<p>KINGSTON 16GB (Part number:KE4CN4K6A, NAND Density:16GB, Package:FBGA169, Operating Voltage:VCC=3.3V,VCCQ=1.8V/3.3V, Read Sequential:166 MB/s, Write Sequential:25 MB/s, Compliant with eMMC Specification Ver 4.41 & 4.5,eMMC 4.5 interface, MLC NAND)</p>	<p>M/B: BT700-T41-E15 Rev.2 (022) (BSE202300033] & Q7A-551 Rev.2 (021) (BSE040400004) M/B BIOS: AMI-Aptio 07/30/2014 M/B Driver: Demo Aug/05/2014 CPU: Intel / Atom-E3815 (BayTrail-I/B3-SR1IRA) / 1.46GHz DDR3: On Board (DDR3L-1600/4GB) eMMC.: On Board (16GB) SSD: SanDisk / SDSSDHP-128G SATA3 128GB/2.5" (SATA port 0) Display: On Board (using DisplayPort) DVD-RW: Archgon / MD-3107-U3 USB3.0 Blu-Ray Power: FSP / FSP060-1AD101C O.S.: Windows 7 Ultimate 64Bit (English) & SP1 (occurred yellow exclamation mark in the device manager, because eMMC not support on Windows 7)</p>	<p>Pass</p>

